

Coachella Valley Integrated Regional Water Management Implementation Grant Proposal

Budget

Attachment 4 consists of the following items:

✓ **Proposal Budget(s)**

This attachment provides a budget estimate for each work plan task of each project within this Implementation Grant Proposal.

The proposal budget provides detailed budget documentation to support each cost shown in the Summary Budget Table 8 (Table 4-1). Table 4-1 presents the proposed funding match for each project within the proposal, including documentation that demonstrates how the proposal will meet the minimum requirement of at least 25 percent of the total costs. Following Table 4-1 are detailed descriptions of individual project budgets; there may be several tasks and sub-tasks that are included in project budget descriptions. As shown in Attachment 12, the *Short Term Arsenic Treatment Program* has applied for a funding match waiver because this program has demonstrated that it will address a critical water quality issue for East Valley disadvantaged communities (DACs).

Total Proposal Cost Estimate

As described in Attachment 3, the *Coachella Valley IRWM Implementation Grant Proposal* involves implementation of four high priority projects to meet the region's water management needs. The total cost to implement this proposal is \$6,992,375. Of this amount, \$4,000,000 (~57%) is being requesting grant funding from the IRWM Grant Program and \$2,992,375 (~43%) is provided as funding match by the local agencies.



Table 4-1: Summary Budget Table 8
Coachella Valley IRWM Implementation Grant Proposal

| Budget Category | | (a) Non-State Share* (Funding Match) | (b) Requested Grant Funding | (c) Other State Funds Being Used | (d) Total | (e) % Funding Match |
|---|---|--|--------------------------------------|---|--------------------|------------------------------|
| GA | CVWD Grant Administration | \$0 | \$100,000 | \$0 | \$100,000 | |
| (a) | Direct Project Administration Costs | \$130,142 | \$45,591 | \$0 | \$175,733 | |
| (b) | Land Purchase/Easement | \$0 | \$0 | \$0 | \$0 | |
| (c) | Planning/Design/Engineering/ Environmental Documentation | \$405,300 | \$18,000 | \$0 | \$423,300 | |
| (d) | Construction/Implementation | \$2,271,633 | \$3,604,975 | \$0 | \$5,876,608 | |
| (e) | Environmental Compliance/ Mitigation/Enhancement | \$5,000 | \$0 | \$0 | \$5,000 | |
| (f) | Construction Administration | \$12,000 | \$70,517 | \$0 | \$82,517 | |
| (g) | Other Costs (Including Legal Costs, Permitting and Licenses) | \$42,700 | \$7,500 | \$0 | \$50,200 | |
| (h) | Construction/Implementation Contingency | \$125,600 | \$153,417 | \$0 | \$279,017 | |
| (i) | Grand Total | \$2,992,375 | \$4,000,000 | \$0 | \$6,992,375 | |
| (j) | Calculation of Funding Match % | \$2,992,375 | - | - | \$6,992,375 | 43% |
| *Sources of funding: Please refer to each of the individual budgets below for a full explanation of the various sources of non-state funding. | | | | | | |

Detailed budgets for each of the projects included within this proposal, including a summary budget and supporting cost information are provided in the following sections.

Project 1: Regional Water Conservation Program

The *Regional Water Conservation Program* will involve tasks designed to bring water conservation to an accessible level and to a wide range of constituents throughout the Coachella Valley through outreach, water audits, and various other conservation programs. Funding for this program involves the following aspects of project implementation: grant administration, project administration, and construction/implementation.

The total cost associated with the *Regional Water Conservation Program* is \$1,373,141. Of these total costs, \$1,025,641 is being requested for grant funding through the IRWM Implementation Grant Program. The remaining \$347,500 will be provided from the conservation budgets of the operating funds of the partner agencies. In total, this amount constitutes 25% of the total project cost, meaning that the non-State share of the total project cost (funding match) is 25% for this program. Table 4-2 below provides a more detailed break-down of the total project budget.



Table 4-2: Total Project Budget
Regional Water Conservation Program

| Budget Category | | (a) | (b) | (c) | (d) | (e) |
|---|--|----------------------------------|-------------------------|------------------------------|--------------------|-----------------|
| | | Non-State Share* (Funding Match) | Requested Grant Funding | Other State Funds Being Used | Total | % Funding Match |
| GA | CVWD Grant Administration | \$0 | \$25,641 | \$0 | \$25,641 | 0% |
| (a) | Direct Project Administration Costs | \$22,500 | \$0 | \$0 | \$22,500 | 100% |
| (b) | Land Purchase/Easement | \$0 | \$0 | \$0 | \$0 | 0% |
| (c) | Planning/Design/Engineering/Environmental Documentation | \$0 | \$0 | \$0 | \$0 | 0% |
| (d) | Construction/Implementation | \$325,000 | \$1,000,000 | \$0 | \$1,325,000 | 25% |
| (e) | Environmental Compliance/Mitigation/Enhancement | \$0 | \$0 | \$0 | \$0 | 0% |
| (f) | Construction Administration | \$0 | \$0 | \$0 | \$0 | 0% |
| (g) | Other Costs (Including Legal Costs, Permitting and Licenses) | \$0 | \$0 | \$0 | \$0 | 0% |
| (h) | Construction/Implementation Contingency | \$0 | \$0 | \$0 | \$0 | 0% |
| (i) | Grand Total | \$347,500 | \$1,025,641 | \$0 | \$1,373,141 | 25% |
| * Sources of funding: The non-state share funding match will be provided by the conservation budgets of the operating funds of the individual partner agencies. | | | | | | |

This Implementation Grant proposal is requesting funding for three project tasks identified within the *Regional Water Conservation Program* Work Plan (refer to Attachment 3).

Table 4-3: Cost Breakdown by Work Plan Task and Subtask
Regional Water Conservation Program

| Row/Task | Category | Total |
|----------|-------------------------------------|--------------------|
| GA | CVWD Grant Administration | \$25,641 |
| Row (a) | Direct Project Administration Costs | \$22,500 |
| Task 1 | Project Administration | \$10,125 |
| Task 3 | Reporting | \$12,375 |
| Row (d) | Construction/Implementation | \$1,325,000 |
| Task 9 | Construction | \$1,325,000 |
| Row (i) | Grand Total | \$1,373,141 |

The sections below provide detailed descriptions of each of the row and task budgets (where applicable) shown in the summary table above. In addition, each section below describes how cost estimates for each of the tasks or rows were calculated.

GA Grant Administration

Each local project sponsor shall dedicate a portion of their grant funds to the Coachella Valley Water District (CVWD) for administration and processing of the Implementation Grant. The *Regional Water Conservation Program* will contribute \$25,641 to this administration cost.



Row (a) Direct Project Administration Costs

The total direct project administration costs for the program are \$22,500. Table 4-4 provides a detailed listing of all applicable costs.

Task 1: Project Administration - This includes the cost for all project administration efforts, including labor costs for a project administrator, accounting staff, and a conservation coordinator from each of the five partnering agencies for a total of \$9,625. An additional \$500 will be required for office supplies for grant administration tasks. These costs were determined based on existing conservation program administration efforts. The five partners currently engage in a variety of conservation activities, and administration of such programs was the basis for current and future cost determinations.

Task 2: Labor Compliance Program - Not applicable.

Task 3: Reporting - This includes the cost for preparing required reports and invoicing, for a total of \$12,375. This is based on the costs associated with existing monitoring efforts including mapping, water use comparisons, and processing and consolidating data for formal planning documents.

Table 4-5: Row (a) Direct Project Administration Budget
Regional Water Conservation Program

| Discipline | Hourly Wage (\$/hr) | Number of Hours | Total | Funding Match | Grant Request |
|-------------------------------|---------------------|-----------------|----------|---------------|---------------|
| CVWD Conservation Coordinator | \$75.00 | 20 | \$1,500 | \$1,500 | \$0 |
| CVWD Accounting Staff | \$60.00 | 20 | \$1,200 | \$1,200 | \$0 |
| CVWD Project Administrator | \$85.00 | 20 | \$1,700 | \$1,700 | \$0 |
| CWA Conservation Coordinator | \$75.00 | 20 | \$1,500 | \$1,500 | \$0 |
| CWA Accounting Staff | \$60.00 | 20 | \$1,200 | \$1,200 | \$0 |
| CWA Project Administrator | \$85.00 | 20 | \$1,700 | \$1,700 | \$0 |
| DWA Conservation Coordinator | \$75.00 | 20 | \$1,500 | \$1,500 | \$0 |
| DWA Accounting Staff | \$60.00 | 20 | \$1,200 | \$1,200 | \$0 |
| DWA Project Administrator | \$85.00 | 20 | \$1,700 | \$1,700 | \$0 |
| IWA Conservation Coordinator | \$75.00 | 20 | \$1,500 | \$1,500 | \$0 |
| IWA Accounting Staff | \$60.00 | 20 | \$1,200 | \$1,200 | \$0 |
| IWA Project Administrator | \$85.00 | 20 | \$1,700 | \$1,700 | \$0 |
| MSWD Conservation Coordinator | \$75.00 | 20 | \$1,500 | \$1,500 | \$0 |
| MSWD Accounting Staff | \$60.00 | 20 | \$1,200 | \$1,200 | \$0 |
| MSWD Project Administrator | \$85.00 | 20 | \$1,700 | \$1,700 | \$0 |
| Office Supplies | Lump Sum | | \$500 | \$500 | \$500 |
| Total | | | \$22,500 | \$22,500 | \$0 |

Row (b) Land Purchase/Easement

Not applicable.

Row (c) Planning/Design/Engineering/Environmental Documentation

This program will not incur costs associated with planning, design, engineering, or environmental documentation.

Task 4: Assessment and Evaluation - Not applicable.



Task 5: Final Design - Not applicable.

Task 6: Environmental Documentation - Not applicable.

Task 7: Permitting - Not applicable.

Row (d) Construction/Implementation

The Construction/Implementation costs for the program are estimated to be \$1,325,000. Table 4-6 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 8: Construction Contracting - The partner agencies will implement necessary construction contracting tasks. However, those staff costs are not included within the proposed budget.

Task 9: Construction/Implementation - Construction costs for this program are divided between three categories: materials, equipment, and labor. These costs, which are summarized below, are necessary to complete Subtasks 9.1 through 9.9, as described within *Task 9: Construction/Implementation* of the Work Plan (refer to Attachment 3).

- **Materials:** Materials for the program include information (kits, etc.) that will be given to students as part of the Water Wise Program, and various workshop materials. In total, the materials costs for this program will be \$202,000. This amount was calculated by using the current cost of Water Wise Program materials multiplied by the number of households that could potentially be reached.
- **Equipment:** Costs associated with this task include costs for sprinkler controls, sprinkler upgrades, and turf purchase. In total, the equipment costs for this program will be \$490,000, which was calculated based on the cost of such equipment multiplied by the number of retrofits the agencies hope to achieve.
- **Labor:** Labor required to fulfill the construction/implementation task include the labor necessary to conduct outreach, water audits, a plan check of the Model Landscape Ordinance, landscape retrofits, and workshop presentations. The total labor costs for this program will be \$633,000, which was calculated based on hourly rates of labor to conduct tasks associated with the conservation program.



Table 4-6: Row (d) Construction/Implementation Costs
Regional Water Conservation Program

| Materials Used | Unit Costs (\$) | Number of Units | Total (\$) | Funding Match | Grant Request |
|------------------------------|---------------------|-----------------|--------------------|------------------|--------------------|
| Materials | | | | | |
| Water Wise Program Materials | Lump Sum | | \$200,000 | \$0 | \$200,000 |
| Workshop Materials | Lump Sum | | \$2,000 | \$2,000 | \$0 |
| Subtotal | | | \$202,000 | \$2,000 | \$200,000 |
| Equipment Used | Unit Costs (\$) | Number of Units | Total (\$) | Funding Match | Grant Request |
| Equipment | | | | | |
| Sprinkler Controllers | \$150 | 2,200 | \$330,000 | \$0 | \$330,000 |
| Sprinkler Upgrades | \$3 | 20,000 | \$60,000 | \$0 | \$60,000 |
| Turf Purchase (square feet) | \$1 | 100,000 | \$100,000 | \$0 | \$100,000 |
| Subtotal | | | \$490,000 | \$0 | \$490,000 |
| Discipline | Hourly Wage (\$/hr) | Number of Hours | Total (\$) | Funding Match | Grant Request |
| Labor | | | | | |
| Outreach and Education | \$60 | 1,000 | \$60,000 | \$0 | \$60,000 |
| Water Audits | \$60 | 5,000 | \$300,000 | \$150,000 | \$150,000 |
| Plan Check | \$60 | 800 | \$48,000 | \$48,000 | \$0 |
| Landscape Retrofits | \$40 | 2,500 | \$100,000 | \$0 | \$100,000 |
| Workshop Presentations | \$60 | 300 | \$18,000 | \$18,000 | \$0 |
| Conservation Coordinator(s) | \$75 | 1,428 | \$107,000 | \$107,000 | \$0 |
| Subtotal | | | \$633,000 | \$323,000 | \$310,000 |
| Total | | | \$1,325,000 | \$325,000 | \$1,000,000 |

Row (e) Environmental Compliance/Mitigation/Enhancement

This program will not incur costs associated with implementing environmental mitigation or enhancement requirements.

Task 10: Environmental Compliance/Mitigation/Enhancement - Not applicable.

Row (f) Construction Administration

There are no construction administration costs included within this budget.

Task 11: Construction Administration - Not Applicable.

Row (g) Other Costs

No other costs will be required for implementation of this program.

Row (h) Construction/Implementation Contingency

No construction or implementation contingency costs will be required for implementation of this program.



Row (i) Grand Total

The Grand Total for the *Regional Water Conservation Program* (\$1,373,141) was calculated as the sum of rows (GA) through (h) for each column.

Table 4-7: Row (i) Grand Total Costs
Regional Water Conservation Program

| Row | Budget Category | Total Costs |
|-----|--|--------------------|
| GA | Grant Administration | \$25,641 |
| (a) | Direct Project Administration Costs | \$22,500 |
| (b) | Land Purchase/Easement | \$0 |
| (c) | Planning/Design/Engineering/ Environmental Documentation | \$0 |
| (d) | Construction/Implementation | \$1,325,000 |
| (e) | Environmental Compliance/ Mitigation/Enhancement | \$0 |
| (f) | Construction Administration | \$0 |
| (g) | Other Costs (Including Legal Costs, Permitting and Licenses) | \$0 |
| (h) | Construction/Implementation Contingency | \$0 |
| (i) | Grand Total | \$1,373,141 |

Project 2: Short Term Arsenic Treatment Project

This project will involve implementing five point-of-entry reverse osmosis water treatment systems and 280 point-of-use reverse osmosis water treatment systems to address arsenic-related water quality issues within portions of the East Valley. Funding for this project involves the following aspects of project implementation: grant administration, project administration, planning/design/engineering/environmental documentation, construction/implementation, construction administration, other costs, and construction/implementation contingency.

The total cost associated with the *Short-Term Arsenic Treatment Project* is \$670,163. Of these total costs, \$564,103 is being requested for grant funding through the IRWM Implementation Grant Program. The remaining \$106,060 was/will be provided from the General Fund of Pueblo Unido Community Development Corporation (PUCDC). In total, this amount constitutes 16% of the total project cost, meaning that the non-State share of the total project cost (funding match) is 16% for this project. Because this project will not meet its 25% funding match requirement and will be serving disadvantaged communities (DACs), this project is requesting a funding waiver match (refer to Attachment 12). Table 4-8 below provides a more detailed break-down of the total project budget.



Table 4-8: Total Project Budget
Short-Term Arsenic Treatment Project

| Budget Category | | (a) Non-State Share* (Funding Match) | (b) Requested Grant Funding | (c) Other State Funds Being Used | (d) Total | (e) % Funding Match |
|-----------------|---|--|--------------------------------------|---|------------------|------------------------------|
| GA | CVWD Grant Administration | \$0 | \$14,103 | \$0 | \$14,103 | 0% |
| (a) | Direct Project Administration Costs | \$75,000 | \$13,200 | \$0 | \$88,200 | 85% |
| (b) | Land Purchase/Easement | \$0 | \$0 | \$0 | \$0 | 0% |
| (c) | Planning/Design/Engineering/ Environmental Documentation | \$2,160 | \$18,000 | \$0 | \$20,160 | 11% |
| (d) | Construction/Implementation | \$26,200 | \$438,800 | \$0 | \$465,000 | 6% |
| (e) | Environmental Compliance/ Mitigation/Enhancement | \$0 | \$0 | \$0 | \$0 | 0% |
| (f) | Construction Administration | \$0 | \$26,200 | \$0 | \$26,200 | 0% |
| (g) | Other Costs (Including Legal Costs, Permitting and Licenses) | \$2,700 | \$7,500 | \$0 | \$10,200 | 26% |
| (h) | Construction/Implementation Contingency | \$0 | \$46,300 | \$0 | \$46,300 | 0% |
| (i) | Grand Total | \$106,060 | \$564,103 | \$0 | \$670,163 | 16% |

* Sources of funding: General Fund of Pueblo Undio Community Development Corporation (PUCDC).

This Implementation Grant Proposal is requesting funding for seven of the eleven project tasks identified within the *Short-Term Arsenic Treatment Project Work Plan* (refer to Attachment 3).

Table 4-9: Cost Breakdown by Work Plan Task and Subtask
Short-Term Arsenic Treatment Project

| Row/Task | Category | Total |
|----------|---|------------------|
| GA | CVWD Grant Administration | \$14,103 |
| Row (a) | Direct Project Administration Costs | \$88,200 |
| Task 1 | Project Administration | \$56,200 |
| Task 3 | Reporting | \$32,000 |
| Row (c) | Planning/Design/Engineering/Environmental Documentation | \$20,160 |
| Task 4 | Assessment and Evaluation | \$5,500 |
| Task 5 | Final Design | \$12,495 |
| Task 7 | Permitting | \$2,165 |
| Row (d) | Construction/Implementation | \$465,000 |
| Task 9 | Construction | \$465,000 |
| Row (f) | Construction Administration | \$26,200 |
| Task 11 | Construction Contracting | \$26,200 |
| Row (g) | Other Costs | \$10,200 |
| Row (h) | Construction/Implementation Contingency | \$46,300 |
| Row (i) | Grand Total | \$670,163 |



The sections below provide detailed descriptions of each of the row and task budgets (where applicable) shown in the summary table above. In addition, each description below describes how cost estimates for each of the tasks or rows were calculated.

Grant Administration (GA)

Local project sponsors shall dedicate a portion of their grant funds to the Coachella Valley Water District (CVWD) for administration and processing of the Implementation Grant. The *Short-Term Arsenic Treatment Project* will contribute \$14,103 to this administration cost.

Row (a) Direct Project Administration Costs

The total direct project administration costs for the project are \$88,200. Table 4-10 provides a detailed listing of all applicable costs.

Task 1: Project Administration - This includes the cost for all project administration efforts, including labor costs for a Project Manager and costs for equipment and supplies associated with project administration. These costs, which were estimated to be \$56,200, were determined based on the project administration requirements associated with implementation of the pilot project at San Antonio del Desierto Mobile Home Park, and adjusted for efficiencies and applied to the additional project area installations that are part of this project.

Task 2: Labor Compliance Program - Not applicable.

Task 3: Reporting - This includes the cost for preparing the Project Assessment and Evaluation Plan, Quarterly Progress Reports and Invoices, and Project Completion Report.

These costs, which were estimated to be \$32,000, were based on the anticipated effort required to prepare information for each point of entry and point of use installation, and summarize this information into a report for submittal to Coachella Valley Water District to be compiled for DWR.

Table 4-10: Row (a) Direct Project Administration Budget
Short-Term Arsenic Treatment Project

| Discipline | Hourly Wage (\$/hr) | Number of Hours | Total | Funding Match | Grant Request |
|--------------------|---------------------|-----------------|----------|---------------|---------------|
| Project Manager | \$55 | 120 | \$6,600 | \$6,600 | |
| Project Manager | \$55 | 240 | \$13,200 | | \$13,200 |
| Equipment/Supplies | Lump Sum | | \$68,400 | \$68,400 | |
| | Total | | \$88,200 | \$75,000 | \$13,200 |

Row (b) Land Purchase/Easement

Not applicable.

Row (c) Planning/Design/Engineering/Environmental Documentation

The total planning/design/engineering/environmental documentation costs for the project are \$20,160. Table 4-11 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 4: Assessment and Evaluation - This task includes costs for completing water testing that will take place prior to construction in order to assess and evaluate the project. These costs are anticipated to be \$5,500, which was calculated based on previous experience with water testing taken place during the pilot project.



Task 5: Final Design - This task includes the cost for finalizing design of the project. This cost was determined based on PUCDC's experience with similar projects, and were therefore estimated at approximately \$12,500.

Task 6: Environmental Documentation - Not applicable.

Task 7: Permitting - PUCDC has applied for and received a treatment permit from the Riverside County Department of Environmental Health for the pilot project. PUCDC will also apply for an Environmental Health Permit and a Building Department Permit for implementation of the *Short-Term Arsenic Treatment Project*. Staff or other costs required to finalize this documentation are anticipated to be approximately \$2,160 and were calculated based on prior experience submitting and receiving permits from the County of Riverside.

Table 4-11: Row (c) Planning/Design/Environmental Documentation Costs
Short-Term Arsenic Treatment Project

| Discipline | Hourly Wage (\$/hr) | Number of Hours | Total | Funding Match | Grant Request |
|---------------------------|---------------------|-----------------|----------|---------------|---------------|
| Assessment and Evaluation | | | | | |
| Water Testing | \$55 | 100 | \$5,500 | - | \$5,500 |
| Final Design | | | | | |
| Engineering | \$85 | 147 | \$12,500 | - | \$12,500 |
| Permitting | | | | | |
| Engineering and Design | Lump Sum | | \$2,160 | \$2,160 | - |
| Total | | | \$20,160 | \$2,160 | \$18,000 |

Row (d) Construction/Implementation

The Construction/Implementation costs for the project are estimated to be \$465,000. Table 4-12 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 8: Construction Contracting - Construction contracting will occur as part of this project, however no funds were budgeted for this task.

Task 9: Construction - Construction costs for this project are necessary to complete subtasks 9.1 through 9.3, and produce other deliverables described within Task 9 (Construction) of the Work Plan (refer to Attachment 3).

The total construction cost estimate of \$465,000 is based on construction costs incurred during the pilot study (at San Antonio del Desierto Mobile Home Park). PUCDC worked with the engineering team of the manufacturer who produces the reverse osmosis systems to develop and receive a cost estimate specific to this project.

- Construction costs for this project are divided between three categories: Materials, Equipment, and Labor. These costs are summarized below and in Table 4-12:
- Materials: Materials that will be required for construction of this project include four concrete slab foundations, four units of forming wood, and four units of rebar.
- Equipment: Anticipated equipment costs for the project includes costs for point of use treatment systems, 1,500 gallon reverse osmosis systems, 15,000 gallon reverse osmosis systems, and shed structures/access.



- Labor: Labor costs required for project construction include costs for a general contractor, masonry, an electrician, and a plumber.

Table 4-12: Row (d) Construction/Implementation Costs
Short-Term Arsenic Treatment Project

| Materials | | | | | |
|--------------------------------------|------------------|-----------------|------------------|-----------------|------------------|
| Materials Used | Unit Costs (\$) | Number of Units | Total (\$) | Funding Match | Grant Request |
| 26' x 19' Foundation (concrete slab) | \$6,000 | 5 | \$24,000 | \$24,000 | \$0 |
| Forming Wood | \$150 | 4 | \$600 | \$600 | \$0 |
| Rebar | \$400 | 4 | \$1,600 | \$1,600 | \$0 |
| Subtotal | | | \$26,200 | \$26,200 | \$0 |
| Equipment Used | Unit Costs (\$) | Number of Units | Total (\$) | Funding Match | Grant Request |
| Point-of-Use Treatment System | \$445 | 280 | \$124,600 | \$0 | \$124,600 |
| 1,500 gallon Reverse Osmosis System | \$15,000 | 3 | \$45,000 | \$0 | \$45,000 |
| 15,000 gallon Reverse Osmosis System | \$85,000 | 2 | \$170,000 | \$0 | \$170,000 |
| Shed Structures and Fencing | \$1,700 | 4 | \$6,800 | \$0 | \$6,800 |
| Subtotal | | | \$346,400 | \$0 | \$346,400 |
| Labor | | | | | |
| Discipline | Hourly Wage (\$) | Number of hours | Total (\$) | Funding Match | Grant Request |
| General Contractor | \$65 | 800 | \$52,000 | \$0 | \$52,000 |
| Masonry | \$40 | 160 | \$6,480 | \$0 | \$6,480 |
| Electrician | \$60 | 160 | \$9,720 | \$0 | \$9,720 |
| Plumber | \$55 | 280 | \$15,400 | \$0 | \$15,400 |
| General Labor | \$55 | 160 | \$8,800 | \$0 | \$8,800 |
| Subtotal | | | \$92,400 | \$0 | \$92,400 |
| Total Cost | | | \$465,000 | \$26,200 | \$438,800 |

Row (e) Environmental Compliance/Mitigation/Enhancement

This project will not trigger requirements of CEQA, NEPA, or other environmental regulations and will therefore not require environmental compliance, mitigation, or enhancement.

Task 10: Environmental Compliance/Mitigation/Enhancement - Not applicable.

Row (f) Construction Administration

The Construction Administration costs for the project are estimated to be \$26,200. This cost total is based on the following:

Task 11: Construction Administration - The project will require approximately 476 hours of construction administration to oversee a contractor to complete construction of the *Short-Term Arsenic*



Treatment Project. If these actions, taken on behalf of PUCDC, require more than \$26,200, those funds will be allocated from PUCDC's general fund, or other funding sources.

Table 4-13: Row (f) Construction Administration Costs
Short-Term Arsenic Treatment Project

| Labor Category | Hourly Wage (\$) | Number of hours | Total (\$) | Funding Match | Grant Request |
|-----------------|------------------|-----------------|-----------------|---------------|-----------------|
| Project Manager | \$55 | 476 | \$26,200 | \$0 | \$26,200 |
| Total | | | \$26,200 | \$0 | \$26,200 |

Row (g) Other Costs

Other costs for the project are \$10,200. These costs include fees from the Environmental Health Department (\$3,500), costs associated with a Certified Operator for monitoring efforts, and other costs that may be incurred based on previous experience with the pilot study (\$2,700). The other costs incurred (\$2,700) will be provided by the project proponent as matching funds.

Row (h) Construction/Implementation Contingency

Based on PUCDC's past experience with similar projects, approximately 10% of construction funds are generally required for unexpected expenses related to construction. As such, this project has budgeted \$46,300 for construction/implementation contingency.

Row (i) Grand Total

The Grand Total for the *Short Term Arsenic Treatment Project* (\$670,163) was calculated as the sum of rows (GA) through (h) for each column.

Table 4-14: Row (i) Grand Total Costs
Short-Term Arsenic Treatment Project

| Row | Budget Category | Total Costs |
|-----|--|------------------|
| GA | Grant Administration | \$14,103 |
| (a) | Direct Project Administration Costs | \$88,200 |
| (b) | Land Purchase/Easement | \$0 |
| (c) | Planning/Design/Engineering/ Environmental Documentation | \$20,160 |
| (d) | Construction/Implementation | \$465,000 |
| (e) | Environmental Compliance/ Mitigation/Enhancement | \$0 |
| (f) | Construction Administration | \$26,200 |
| (g) | Other Costs (Including Legal Costs, Permitting and Licenses) | \$10,200 |
| (h) | Construction/Implementation Contingency | \$46,300 |
| (i) | Grand Total | \$670,163 |



Project 3: Groundwater Quality Protection Program – Desert Hot Springs

This project will involve extending the Mission Springs Water District (MSWD) municipal wastewater collection system to a residential area, designated as Sub-area D-1, thereby eliminating the need for on-site septic systems in that area and reducing the potential for groundwater contamination from densely clustered and/or failing septic systems. Funding for this project involves the following aspects of project implementation: grant administration, project administration, planning/design/engineering/environmental documentation, construction/implementation, construction administration, other costs, and construction/implementation contingency.

The total cost associated with the *Groundwater Quality Protection Program – Desert Hot Springs* is \$3,097,181. Of these total costs, \$1,025,641 is being requested for grant funding through the IRWM Implementation Grant Program. The remaining \$2,071,540 was/will be provided from the Assessment District No. 12 Bonds and District Capital Improvement Fund and a United States Army Corps of Engineers Planning Grant. In total, this amount constitutes 67% of the total project cost, meaning that the non-State share of the total project cost (funding match) is 67% for this project. Table 4-15 below provides a more detailed break-down of the total project budget.

Table 4-15: Total Project Budget
Groundwater Quality Protection Program – Desert Hot Springs

| Budget Category | | (a) Non-State Share* (Funding Match) | (b) Requested Grant Funding | (c) Other State Funds Being Used | (d) Total | (e) % Funding Match |
|--|---|--|--------------------------------------|---|--------------------|------------------------------|
| GA | CVWD Grant Administration | \$0 | \$25,641 | \$0 | \$25,641 | 0% |
| (a) | Direct Project Administration Costs | \$24,000 | \$0 | \$0 | \$24,000 | 100% |
| (b) | Land Purchase/Easement | \$0 | \$0 | \$0 | \$0 | 0% |
| (c) | Planning/Design/Engineering/ Environmental Documentation | \$58,140 | \$0 | \$0 | \$58,140 | 100% |
| (d) | Construction/Implementation | \$1,806,800 | \$1,000,000 | \$0 | \$2,806,800 | 64% |
| (e) | Environmental Compliance/ Mitigation/Enhancement | \$5,000 | \$0 | \$0 | \$5,000 | 100% |
| (f) | Construction Administration | \$12,000 | \$0 | \$0 | \$12,000 | 100% |
| (g) | Other Costs (Including Legal Costs, Permitting and Licenses) | \$40,000 | \$0 | \$0 | \$40,000 | 100% |
| (h) | Construction/Implementation Contingency | \$125,600 | \$0 | \$0 | \$125,600 | 100% |
| (i) | Grand Total | \$2,071,540 | \$1,025,641 | \$0 | \$3,097,181 | 67% |
| *Sources of funding: Assessment District No. 12 Bonds and District Capital Improvement Fund. Design completed in conjunction with a UASCE planning grant that required a 25% cost share. | | | | | | |

This Implementation Grant Proposal budget allocates funding for six of the eleven project tasks identified within the *Groundwater Quality Protection Program – Desert Hot Springs* Work Plan (refer to Attachment 3).



Table 4-16: Cost Breakdown by Work Plan Task and Subtask
Groundwater Quality Protection Program – Desert Hot Springs

| Row/Task | Category | Total |
|----------------|---|--------------------|
| GA | CVWD Grant Administration | \$25,641 |
| Row (a) | Direct Project Administration Costs | \$24,000 |
| Task 1 | <i>Project Administration</i> | <i>\$19,200</i> |
| Task 2 | <i>Labor Compliance Program</i> | <i>\$800</i> |
| Task 3 | <i>Reporting</i> | <i>\$4,000</i> |
| Row (c) | Planning/Design/Engineering/Environmental Documentation | \$58,140 |
| Task 5 | <i>Final Design</i> | <i>\$58,140</i> |
| Row (d) | Construction/Implementation | \$2,806,800 |
| Task 9 | <i>Construction</i> | <i>\$2,806,800</i> |
| Row (e) | Environmental Compliance/Mitigation/Enhancement | \$5,000 |
| Row (f) | Construction Administration | \$12,000 |
| Task 11 | <i>Construction Administration</i> | <i>\$12,000</i> |
| Row (g) | Other Costs | \$40,000 |
| Row (h) | Construction/Implementation Contingency | \$125,600 |
| Row (i) | Grand Total | \$3,097,181 |

The sections below provide detailed descriptions of each of the row and task budgets (where applicable) shown in the summary table above. In addition, each description below describes how cost estimates for each of the tasks or rows were calculated.

Grant Administration (GA)

Each local project sponsor shall dedicate a portion of their grant funds to the Coachella Valley Water District (CVWD) for administration and processing of the Implementation Grant. The *Groundwater Quality Protection Program – Desert Hot Springs* will contribute \$25,641 to this administration cost.

Row (a) Direct Project Administration Costs

The total direct project administration costs for the project are \$24,000. Table 4-17 provides a detailed listing of all applicable costs.

Task 1: Project Administration - This includes the cost for all project administration efforts, including labor costs for a Director of Engineering Projects and a Senior Project Manager. These costs were determined based on the estimated costs of 120 hours each for the Director of Engineering Projects and Senior Project Manager, for a total of 240 hours of labor. The 240 hours is allocated evenly between the two positions with 192 hours for project administration, and the remaining hours for Tasks 2 and 3 (described below).

Task 2: Labor Compliance Program - Mission Springs Water District will implement a labor compliance program (LCP) for the *Groundwater Quality Protection Program – Desert Hot Springs*. Staff costs required to implement the LCP include eight total hours, four hours from the Director of Engineering Projects, and four hours from the Senior Project Manager.

Task 3: Reporting - This includes the cost for preparing the Project Assessment and Evaluation Plan, Quarterly Progress Reports and Invoices, and Project Completion Report. This is based on the estimate



that 40 hours will be allocated to the administration of the DWR reports (collecting information and assembling reports).

Table 4-17: Row (a) Direct Project Administration Budget
Groundwater Quality Protection Program – Desert Hot Springs

| Discipline | Hourly Wage (\$/hr) | Number of Hours | Total | Funding Match | Grant Request |
|----------------------------------|---------------------|-----------------|-----------------|-----------------|---------------|
| Director of Engineering Projects | \$100 | 120 | \$12,000 | \$12,000 | - |
| Senior Project Manager | \$100 | 120 | \$12,000 | \$12,000 | - |
| Total | | | \$24,000 | \$24,000 | \$0 |

Row (b) Land Purchase/Easement

Not applicable.

Row (c) Planning/Design/Engineering/Environmental Documentation

The total planning/design/engineering/environmental documentation cost for the project is \$58,140 and is shown in Table 4-18. This cost total is based on the following:

Task 4: Assessment and Evaluation - Not applicable.

Task 5: Final Design - This task includes the cost for finalizing design of the project. This cost was determined based on design engineering efforts that have already been incurred by MSWD to finalize design of the project.

Task 6: Environmental Documentation - MSWD has completed environmental documentation for this project, however, staff or other costs required to finalize this documentation are not included within the proposed Budget.

Task 7: Permitting - MSWD is ready to apply for a Stormwater Pollution Prevention Plan (SWPPP), a City Encroachment Permit, and a County Encroachment Permit. However, staff or other costs required to finalize this documentation are not included within the proposed Budget.

Table 4-18: Row (c) Planning/Design/Environmental Documentation Costs
Groundwater Quality Protection Program – Desert Hot Springs

| Stage | Discipline | Hourly Wage (\$/hr) | Number of Hours | Total | Funding Match | Grant Request |
|----------------------|-------------|---------------------|-----------------|----------|---------------|---------------|
| 100% Design Services | Engineering | Lump Sum | | \$58,140 | \$58,140 | - |
| Total | | | | \$58,140 | \$58,140 | \$0 |

Row (d) Construction/Implementation

The Construction/Implementation costs for the project are estimated to be \$2,542,800. Table 4-19 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 8: Construction Contracting - MSWD will complete construction contracting for this project, however staff or other costs required to finalize actions for this task are not included within the proposed Budget.



Task 9: Construction - Construction costs for this project are necessary to complete subtasks 9.1 through 9.3, and produce other deliverables described within Task 9 (Construction) of the Work Plan (refer to Attachment 3).

The total construction cost estimate of \$2,552,800 is based on a total estimate given by a licensed engineer. Of these costs, \$1,000,000 is being requested as grant funding, and \$1,542,800 will be matched by the Assessment District Number 12 Bonds and District Capital Improvement Fund. These cost estimates were based on the detailed engineer's estimate provided by an engineering firm. The grant funding and MSWD's match will cover costs for the construction of the sewer lines and laterals, including all manholes and appurtenances.

Table 4-19: Row (d) Construction/Implementation Costs
Groundwater Quality Protection Program – Desert Hot Springs

| Description of Costs | Unit Costs (\$) | Number of Units | Total (\$) | Funding Match | Grant Request |
|------------------------------|-----------------|-----------------|--------------------|--------------------|--------------------|
| Task 9.1 | | | | | |
| Mobilization/ Demobilization | Lump Sum | | \$121,058 | \$121,058 | \$0 |
| Task 9.2 | | | | | |
| Project Construction | Lump Sum | | \$2,391,742 | \$1,391,742 | \$1,000,000 |
| Task 9.3 | | | | | |
| Survey and Staking | Lump Sum | | \$20,000 | \$20,000 | \$0 |
| Soils Testing | Lump Sum | | \$10,000 | \$10,000 | \$0 |
| Consultant CM | Lump Sum | | \$220,000 | \$220,000 | \$0 |
| MSWD CM & Inspection | \$100/hr./440 | | \$44,000 | \$44,000 | \$0 |
| Total | | | \$2,806,800 | \$1,806,800 | \$1,000,000 |

Row (e) Environmental Compliance/Mitigation/Enhancement

The Environmental Compliance/Mitigation/Enhancement costs for the project are \$5,000, which will be paid for by the Assessment District Number 12 Bonds and District Capital Improvement Reserve Account. Table 4-20 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 10: Environmental Compliance/Mitigation/Enhancement - The environmental documentation (CEQA and NEPA) prepared for this project found that surveying by an archaeologist and a biologist may be necessary to mitigate potential impacts associated with the project. These surveying efforts will be accomplished as follows:

Table 4-20: Row (e) Environmental Compliance/Mitigation/Enhancement Costs
Groundwater Quality Protection Program – Desert Hot Springs

| Discipline | Hourly Wage (\$) | Number of hours | Total (\$) | Funding Match | Grant Request |
|---------------|------------------|-----------------|----------------|----------------|---------------|
| Archaeologist | \$100 | 10 | \$1,000 | \$1,000 | \$0 |
| Biologist | \$100 | 40 | \$4,000 | \$4,000 | \$0 |
| Total | | | \$5,000 | \$5,000 | \$0 |



Row (f) Construction Administration

The Construction Administration costs for the project are estimated to be \$276,000. This cost total is based on the following:

Task 11: Construction Administration - The total costs for this task includes work anticipated from a MSWD Engineer, which will require about 120 hours of total labor. Additional efforts, including a construction management consultant, will be required under this task, but are not included in the budget. Such costs can typically be 10% of the total construction cost. These budgeted costs are summarized in Table 4-21 below.

Table 4-21: Row (f) Construction Administration Costs
Groundwater Quality Protection Program – Desert Hot Springs

| Labor Category | Hourly Wage (\$) | Number of hours | Total (\$) | Funding Match | Grant Request |
|----------------|------------------|-----------------|-----------------|-----------------|---------------|
| MSWD Engineer | \$100 | 120 | \$12,000 | \$12,000 | \$0 |
| Total | | | \$12,000 | \$12,000 | \$0 |

Row (g) Other Costs

Other costs for the project are \$40,000. These costs include permitting associated with the SWPPP (\$20,000) and encroachment permits (\$10,000) as well as efforts associated with the Labor Compliance Program (\$10,000). The SWPPP cost estimate is based on MSWD's discussions with engineering firms for cost estimates to comply with new stormwater permit requirements effective January 1, 2011. Encroachment permit costs are estimated based on similar projects recently completed by MSWD in the City of Desert Hot Springs. The Labor Compliance Program cost is approximately 0.5% of the project construction costs.

Row (h) Construction/Implementation Contingency

The Construction/Implementation Contingency costs for the *Groundwater Quality Protection Program – Desert Hot Springs* are estimated to be \$125,600. This was estimated to be approximately 5% of the total construction cost of \$2,542,800.

Row (i) Grand Total

The Grand Total for the *Groundwater Quality Protection Program – Desert Hot Springs* project (\$3,097,181) was calculated as the sum of rows (GA) through (h) for each column.



Table 4-22: Row (i) Grand Total Costs
Groundwater Quality Protection Program – Desert Hot Springs

| Row | Budget Category | Total Costs |
|-----|--|--------------------|
| GA | Grant Administration | \$25,641 |
| (a) | Direct Project Administration Costs | \$24,000 |
| (b) | Land Purchase/Easement | \$0 |
| (c) | Planning/Design/Engineering/ Environmental Documentation | \$58,140 |
| (d) | Construction/Implementation | \$2,806,800 |
| (e) | Environmental Compliance/ Mitigation/Enhancement | \$5,000 |
| (f) | Construction Administration | \$12,000 |
| (g) | Other Costs (Including Legal Costs, Permitting and Licenses) | \$40,000 |
| (h) | Construction/Implementation Contingency | \$125,600 |
| (i) | Grand Total | \$3,097,181 |

Project 4: Groundwater Quality Protection Program – Cathedral City

This project will involve removing failing and/or densely located septic tanks in the City of Cathedral City, expanding the Coachella Valley Water District (CVWD) wastewater collection system, and connecting the project area to a booster pump station in order to reduce groundwater contamination. Funding for this project involves the following aspects of project implementation: grant administration, project administration, planning/design/engineering/environmental documentation, construction/implementation, construction administration, and construction/implementation contingency.

The total cost associated with the *Groundwater Quality Protection Program—Cathedral City* is \$1,851,611. Of these total costs, \$1,384,615 is being requested for grant funding through the IRWM Implementation Grant Program. The remaining \$467,275 was or will be provided by the City of Cathedral City's Redevelopment Agency (RDA) funds. In total, this amount constitutes 25% of the total project cost, meaning that the non-State share of the total project cost (funding match) is 25% for this project. Table 4-23 below provides a more detailed break-down of the total project budget.



Table 4-23: Total Project Budget
Groundwater Quality Protection Program—Cathedral City

| | | (a) | (b) | (c) | (d) | (e) |
|-----------------|--|----------------------------------|-------------------------|------------------------------|--------------------|-----------------|
| Budget Category | | Non-State Share* (Funding Match) | Requested Grant Funding | Other State Funds Being Used | Total | % Funding Match |
| GA | CVWD Grant Administration | \$0 | \$34,615 | \$0 | \$34,615 | 0% |
| (a) | Direct Project Administration Costs | \$8,642 | \$32,391 | \$0 | \$41,033 | 21% |
| (b) | Land Purchase/Easement | \$0 | \$0 | \$0 | \$0 | 0% |
| (c) | Planning/Design/Engineering/Environmental Documentation | \$345,000 | \$0 | \$0 | \$345,000 | 100% |
| (d) | Construction/Implementation | \$113,633 | \$1,166,175 | \$0 | \$1,279,808 | 9% |
| (e) | Environmental Compliance/Mitigation/Enhancement | \$0 | \$0 | \$0 | \$0 | 0% |
| (f) | Construction Administration | \$0 | \$44,317 | \$0 | \$44,137 | 0% |
| (g) | Other Costs (Including Legal Costs, Permitting and Licenses) | \$0 | \$0 | \$0 | \$0 | 0% |
| (h) | Construction/Implementation Contingency | \$0 | \$107,117 | \$0 | \$107,117 | 0% |
| (i) | Grand Total | \$467,275 | \$1,384,615 | \$0 | \$1,851,890 | 25% |

* Sources of funding: Cathedral City funded the studies and design services with City Redevelopment Agency (RDA) funds.

This Implementation Grant Proposal is requesting funding for five of the eleven project tasks identified within the *Groundwater Quality Protection Program – Cathedral City Work Plan* (refer to Attachment 3).

Table 4-24: Cost Breakdown by Work Plan Task and Subtask
Groundwater Quality Protection Program—Cathedral City

| Row/Task | Category | Total |
|----------|---|--------------------|
| GA | CVWD Grant Administration | \$34,615 |
| Row (a) | Direct Project Administration Costs | \$41,033 |
| Task 1 | <i>Project Administration</i> | <i>\$41,033</i> |
| Row (c) | Planning/Design/Engineering/Environmental Documentation | \$345,000 |
| Task 5 | <i>Final Design</i> | <i>\$345,000</i> |
| Row (d) | Construction/Implementation | \$1,279,808 |
| Task 8 | <i>Construction Contracting</i> | <i>\$113,633</i> |
| Task 9 | <i>Construction</i> | <i>\$1,166,175</i> |
| Row (f) | Construction Administration | \$44,317 |
| Task 11 | <i>Construction Administration</i> | <i>\$44,317</i> |
| Row (h) | Construction/Implementation Contingency | \$107,117 |
| Row (i) | Grand Total | \$1,851,611 |

The sections below provide detailed descriptions of each of the row and task budgets (where applicable) shown in the summary table above. In addition, each description below describes how cost estimates for each of the tasks or rows were developed.



Grant Administration (GA)

Each local project sponsor shall dedicate a portion of their grant funds to CVWD for administration and processing of the Implementation Grant. The *Groundwater Quality Protection Program – Cathedral City* will contribute \$34,615 to this administration cost.

Row (a) Direct Project Administration Costs

The total project administration cost for the project is estimated to be \$41,033. This is approximately 3% of the project construction cost, and is within the range of previous administrative costs for similar projects incurred by the City of Cathedral City. Table 4-25 provides a detailed listing of all applicable costs.

Task 1: Project Administration - This includes the cost for all project administration efforts, including labor costs for an Engineer and an Accountant from Cathedral City, and consultants for Project Management. These costs were determined based on experience with similar projects completed by the City of Cathedral City. The City of Cathedral City has completed similar projects, and compiled a database of relevant costs. This database provided the basis for cost estimates associated with this project.

Task 2: Labor Compliance Program - The City of Cathedral City will implement a labor compliance program (LCP) for the *Groundwater Quality Protection Program – Cathedral City*. However, staff costs required to implement the LCP are not included within the proposed Budget.

Task 3: Reporting - The City of Cathedral City will complete a Project Assessment and Evaluation Plan, Quarterly Progress Reports and Invoices, and a Project Completion Report. However, staff costs required to complete this reporting are not included within the proposed budget.

Table 4-25: Row (a) Direct Project Administration Budget
Groundwater Quality Protection Program—Cathedral City

| Discipline | Hourly Wage (\$/hr) | Number of Hours | Total | Funding Match | Grant Request |
|-------------------------------|---------------------|-----------------|-----------------|----------------|-----------------|
| Cathedral City Engineer | \$124.84 | 100 | \$12,484 | \$1,248 | \$11,236 |
| Cathedral City Accountant | \$90.04 | 88 | \$7,924 | \$1,981 | \$5,943 |
| Consultant Project Management | \$150.00 | 77.5 | \$11,625 | \$3,600 | \$8,025 |
| Cathedral City Administration | \$125.00 | 72 | \$9,000 | \$1,813 | \$7,187 |
| Total | | | \$41,033 | \$8,642 | \$32,391 |

Row (b) Land Purchase/Easement

Not applicable.

Row (c) Planning/Design/Engineering/Environmental Documentation

The total Planning/Design/Engineering/Environmental documentation costs for the project are \$345,000. Table 4-26 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 4: Assessment and Evaluation - Not applicable.

Task 5: Final Design - This task includes the cost for finalizing design of the project. This cost has already been incurred by the project proponent, and was therefore determined based on actual costs.

Task 6: Environmental Documentation - Not applicable.



Task 7: Permitting - The City of Cathedral City will complete tasks associated with obtaining a City Encroachment Permit. However, staff costs required to complete permitting are not included within the proposed Budget.

Table 4-26: Row (c) Planning/Design/Environmental Documentation Costs
Groundwater Quality Protection Program—Cathedral City

| Discipline | Hourly Wage (\$/hr) | Number of Hours | Total | Funding Match | Grant Request |
|-----------------------------|---------------------|-----------------|------------------|------------------|---------------|
| 100% Design Services | | | | | |
| Civil/Sanitary Engineering | Lump Sum | | \$345,000 | \$345,000 | - |
| Total | | | \$345,000 | \$345,000 | \$0 |

Row (d) Construction/Implementation

The Construction/Implementation costs for the project are estimated to be \$1,279,808. Table 4-27 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 8: Construction Contracting - This task will include advertising and awarding the construction contract. The budget for this is estimated to be \$113,633 based on prior experience by the City of Cathedral City.

Task 9: Construction - Construction costs for this project, which are summarized below, are necessary to complete subtasks 9.1 through 9.3, and produce other deliverables described within Task 9 (Construction) of the Work Plan (refer to Attachment 3). All of the cost estimates for the following subtasks are based on the bid schedule, final construction, and bid documents from similar projects within the City of Cathedral City. Updated costs will be provided by contractors during the bid solicitation process.

- **Subtask 9.1 Mobilization and Site Preparation:** Costs associated with this task are for mobilization, which is estimated to be \$25,000.
- **Subtask 9.2 Project Construction:** Costs associated with this task are for traffic control, public convenience and safety, dust control, shoring sheeting and bracing, materials testing, surveying, and all construction costs. These total costs are estimated to be \$1,071,175.
- **Subtask 9.3 Performance Testing and Demobilization:** Costs associated with this task include reconstructing the existing manhole base and site inspection and are estimated to be \$70,000.



Table 4-27: Row (d) Construction/Implementation Costs
Groundwater Quality Protection Program—Cathedral City

| Description of Costs | Unit Costs (\$) | Number of Units | Total (\$) | Funding Match | Grant Request |
|--|-----------------|-----------------|-------------|---------------|---------------|
| Task 8 Construction Contracting | | | | | |
| Construction Contracting | Lump Sum | | \$113,633 | \$113,633 | \$0 |
| Subtask 9.1 Mobilization and Site Preparation | | | | | |
| Mobilization | Lump Sum | | \$25,000 | \$0 | \$25,000 |
| Subtask 9.2 Project Construction | | | | | |
| Traffic Control, Public Convenience and Safety | Lump Sum | | \$15,000 | \$0 | \$15,000 |
| Dust Control | Lump Sum | | \$4,000 | \$0 | \$4,000 |
| Shoring, Sheeting, and Bracing | Lump Sum | | \$25,000 | \$0 | \$25,000 |
| Construct 15" VCP Sewer Main 0-15' depth | \$145 | 2307 | \$334,515 | \$0 | \$334,515 |
| Construct 15" VCP Sewer Main over 15' depth | \$205 | 1462 | \$299,710 | \$0 | \$299,710 |
| Construct 6" VCP Sewer Lateral w/cleanout | \$95 | 1500 | \$142,500 | \$0 | \$142,500 |
| Construct Concrete Manhole 10'-15' depth | \$4,350 | 12 | \$52,200 | \$0 | \$52,200 |
| Construct Concrete Manhole over 15' depth | \$5,000 | 9 | \$45,000 | \$0 | \$45,000 |
| Construct 15'' VCP Sewer in 30'' jacked and bored steel casing | \$850 | 145 | \$123,250 | \$0 | \$123,250 |
| Materials Testing | Lump Sum | | \$18,000 | \$0 | \$18,000 |
| Surveying | Lump Sum | | \$12,000 | \$0 | \$12,000 |
| Subtask 9.3 Performance Testing and Demobilization | | | | | |
| Reconstruct Existing Manhole Base | Lump Sum | | \$5,000 | \$0 | \$5,000 |
| Inspection | Lump Sum | | \$65,000 | \$0 | \$65,000 |
| Total | | | \$1,279,808 | \$113,633 | \$1,166,175 |

Row (e) Environmental Compliance/Mitigation/Enhancement

This project received a CEQA Categorical Exemption in May, 2008 and therefore will not incur further costs associated with implementing environmental mitigation or enhancement requirements.

Task 10: Environmental Compliance/Mitigation/Enhancement - Not applicable.

Row (f) Construction Administration

The Construction Administration costs for the project are estimated to be \$44,317. This cost total is based on the following:

Task 11: Construction Administration - Costs for this task are estimated to be \$44,317, which will be allocated to a Construction Administration Consultant who will ensure that the project complies with Desert Water Agency materials and construction standards.



Table 4-28: Row (f) Construction Administration Costs
Groundwater Quality Protection Program—Cathedral City

| Labor Category | Hourly Wage (\$) | Number of hours | Total (\$) | Funding Match | Grant Request |
|--|------------------|-----------------|------------|---------------|---------------|
| Construction Administration Consultant | Lump Sum | | \$44,317 | \$0 | \$44,317 |
| Total | | | \$44,317 | \$0 | \$44,317 |

Row (g) Other Costs

No other costs will be required for implementation of this project.

Row (h) Construction/Implementation Contingency

The Construction/Implementation Contingency costs for the *Groundwater Quality Protection Program – Cathedral City* are estimated to be \$107,117. This was estimated to be approximately 10% of the total construction cost of \$1,166,175.

Row (i) Grand Total

The Grand Total for the project (\$1,738,257) was calculated as the sum of rows (GA) through (h) for each column.

Table 4-29: Row (i) Grand Total Costs
Groundwater Quality Protection Program—Cathedral City

| Row | Budget Category | Total Costs |
|------------|--|--------------------|
| GA | Grant Administration | \$34,615 |
| (a) | Direct Project Administration Costs | \$41,033 |
| (b) | Land Purchase/Easement | \$0 |
| (c) | Planning/Design/Engineering/ Environmental Documentation | \$345,000 |
| (d) | Construction/Implementation | \$1,279,808 |
| (e) | Environmental Compliance/ Mitigation/Enhancement | \$0 |
| (f) | Construction Administration | \$44,317 |
| (g) | Other Costs (Including Legal Costs, Permitting and Licenses) | \$0 |
| (h) | Construction/Implementation Contingency | \$107,117 |
| (i) | Grand Total | \$1,851,890 |